Cloud Computing: A Hands-On Approach

By Arshdeep Bahga, Vijay Madisetti

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti

About the Book

Recent industry surveys expect the cloud computing services market to be in excess of $20 billion and cloud computing jobs to be in excess of 10 million worldwide in 2014 alone. In addition, since a majority of existing information technology (IT) jobs is focused on maintaining legacy in-house systems, the demand for these kinds of jobs is likely to drop rapidly if cloud computing continues to take hold of the industry.

However, there are very few educational options available in the area of cloud computing beyond vendor-specific training by cloud providers themselves. Cloud computing courses have not found their way (yet) into mainstream college curricula.

This book is written as a textbook on cloud computing for educational programs at colleges. It can also be used by cloud service providers who may be interested in offering a broader perspective of cloud computing to accompany their own customer and employee training programs. The typical reader is expected to have completed a couple of courses in programming using traditional high-level languages at the college-level, and is either a senior or a beginning graduate student in one of the science, technology, engineering or mathematics (STEM) fields. We have tried to write a comprehensive book that transfers knowledge through an immersive "hands-on approach", where the reader is provided the necessary guidance and knowledge to develop working code for real-world cloud applications.

Additional support is available at the book's website: www.cloudcomputingbook.info

Organization

The book is organized into three main parts. Part I covers technologies that form the foundations of cloud computing. These include topics such as virtualization, load balancing, scalability & elasticity, deployment, and replication. Part II introduces the reader to the design & programming aspects of cloud computing. Case studies on design and implementation of several cloud applications in the

areas such as image processing, live streaming and social networks analytics are provided. Part III introduces the reader to specialized aspects of cloud computing including cloud application benchmarking, cloud security, multimedia applications and big data analytics. Case studies in areas such as IT, healthcare, transportation, networking and education are provided.

Cloud Computing: A Hands-On Approach

By Arshdeep Bahga, Vijay Madisetti

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti

About the Book

Recent industry surveys expect the cloud computing services market to be in excess of $20 billion and cloud computing jobs to be in excess of 10 million worldwide in 2014 alone. In addition, since a majority of existing information technology (IT) jobs is focused on maintaining legacy in-house systems, the demand for these kinds of jobs is likely to drop rapidly if cloud computing continues to take hold of the industry.

However, there are very few educational options available in the area of cloud computing beyond vendor-specific training by cloud providers themselves. Cloud computing courses have not found their way (yet) into mainstream college curricula.

This book is written as a textbook on cloud computing for educational programs at colleges. It can also be used by cloud service providers who may be interested in offering a broader perspective of cloud computing to accompany their own customer and employee training programs. The typical reader is expected to have completed a couple of courses in programming using traditional high-level languages at the college-level, and is either a senior or a beginning graduate student in one of the science, technology, engineering or mathematics (STEM) fields. We have tried to write a comprehensive book that transfers knowledge through an immersive "hands-on approach", where the reader is provided the necessary guidance and knowledge to develop working code for real-world cloud applications.

Additional support is available at the book's website: www.cloudcomputingbook.info

Organization

The book is organized into three main parts. Part I covers technologies that form the foundations of cloud computing. These include topics such as virtualization, load balancing, scalability & elasticity, deployment, and replication. Part II introduces the reader to the design & programming aspects of cloud computing. Case studies on design and implementation of several cloud applications in the areas such as image processing, live streaming and social networks analytics are provided. Part III introduces the reader to specialized aspects of cloud computing including cloud application benchmarking, cloud security, multimedia applications and big data analytics. Case studies in areas such as IT, healthcare, transportation, networking and education are provided.

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti Bibliography

- Sales Rank: #573365 in Books
- Published on: 2013-12-09
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.03" w x 7.00" l, 1.73 pounds

- Binding: Paperback
- 454 pages

Download and Read Free Online Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti

Editorial Review

Review
The book has been recognized by the ACM Computing Reviews' 19th Annual Best of Computing in 2014 list: computingreviews.com/recommend/bestof/notableitems.cfm?bestYear=2014

From the Author

We have tried to write a comprehensive book that transfers knowledge through an immersive "hands on" approach, where the reader is provided the necessary guidance and knowledge to develop working code for real-world cloud applications. Concurrent development of practical applications that accompanies traditional instructional material within the book further enhances the learning process, in our opinion.

Through generous use of hundreds of figures and tested code samples, we have attempted to provide a rigorous "no hype" guide to cloud computing. It is expected that diligent readers of this book can use these exercises to develop their own applications on cloud platforms, such as those from Amazon Web Services, Google Cloud, and Microsoft's Windows Azure. Review questions and exercises are provided at the end of each chapter so that the readers (students or instructors) can improve their understanding of the technologies conveyed. We adopted an informal approach to describing well-known concepts primarily because these topics are covered well in existing textbooks, and our focus instead is on getting the reader firmly on track to developing robust cloud applications as opposed to more theory.

About the Author
Arshdeep Bahga is a Research Scientist with Georgia Institute of Technology. His research interests include cloud computing and big data analytics. Arshdeep has authored several scientific publications in peer-reviewed journals in the areas of cloud computing and big data.

Vijay Madisetti is a Professor of Electrical and Computer Engineering at Georgia Institute of Technology. Vijay is a Fellow of the IEEE, and received the 2006 Terman Medal from the American Society of Engineering Education and HP Corporation.

Users Review

From reader reviews:

Joyce Loza:

Hey guys, do you wishes to finds a new book to study? May be the book with the concept Cloud Computing: A Hands-On Approach suitable to you? Typically the book was written by well known writer in this era. Typically the book untitled Cloud Computing: A Hands-On Approachis the one of several books this everyone read now. This kind of book was inspired lots of people in the world. When you read this e-book you will enter the new age that you ever know ahead of. The author explained their strategy in the simple way, and so all of people can easily to understand the core of this reserve. This book will give you a wide range of information about this world now. So that you can see the represented of the world with this book.

Jimmy Maiden:

Cloud Computing: A Hands-On Approach can be one of your nice books that are good idea. Most of us recommend that straight away because this e-book has good vocabulary that will increase your knowledge in language, easy to understand, bit entertaining but still delivering the information. The copy writer giving his/her effort to put every word into joy arrangement in writing Cloud Computing: A Hands-On Approach however doesn't forget the main place, giving the reader the hottest in addition to based confirm resource info that maybe you can be one among it. This great information can drawn you into fresh stage of crucial pondering.

Judith Lucas:

This Cloud Computing: A Hands-On Approach is brand new way for you who has intense curiosity to look for some information since it relief your hunger of knowledge. Getting deeper you on it getting knowledge more you know or else you who still having bit of digest in reading this Cloud Computing: A Hands-On Approach can be the light food in your case because the information inside this specific book is easy to get through anyone. These books acquire itself in the form which can be reachable by anyone, that's why I mean in the e-book contact form. People who think that in reserve form make them feel tired even dizzy this guide is the answer. So there isn't any in reading a e-book especially this one. You can find what you are looking for. It should be here for you actually. So , don't miss it! Just read this e-book kind for your better life and also knowledge.

Jason Buckley:

As a scholar exactly feel bored for you to reading. If their teacher requested them to go to the library or even make summary for some publication, they are complained. Just minor students that has reading's heart and soul or real their hobby. They just do what the instructor want, like asked to the library. They go to there but nothing reading seriously. Any students feel that studying is not important, boring and also can't see colorful pics on there. Yeah, it is for being complicated. Book is very important for you personally. As we know that on this era, many ways to get whatever we really wish for. Likewise word says, ways to reach Chinese's country. Therefore , this Cloud Computing: A Hands-On Approach can make you truly feel more interested to read.

Download and Read Online Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti #6RO8JVT04GS

Read Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti for online ebook

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti books to read online.

Online Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti ebook PDF download

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti Doc

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti Mobipocket

Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti EPub

6RO8JVT04GS: Cloud Computing: A Hands-On Approach By Arshdeep Bahga, Vijay Madisetti